

01-NOV-09
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GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
THE ANALYSIS AND DESIGN OF PIERS FOR BRIDGES - V 4.2.07 - AASHTO SPECS 1984 INTERIM
REVISED: JUNE 30, 2008
36' CURB-CURB; 5 BEAMS; 140' SPAN; 70' drilled caisson; BRIDGE 26 ; PIE

PROB. NO. 0001

DESIGN NO.	NO. CAN	NO. COL	NO. LLC	SKEW D	ANG M	F'C S	FC PSI	N	FY PSI	FS PSI	DESIGN DATA		CONC.	Z	* * * CAP			REINFORCING STEEL			* * * CAP								
OPTIONS											EC	ES	STRAIN	FACT	MAIN SIZE	STR	MAX	MAX	MIN	MIN	TOP	MIN	TOP	MIN	DEPTH	CL.	S.SP	INCR.	CL.
D	D	D	L	2	2	12	0-00-00	3500.	1400.	8.	60000.	24000.	3409.	29000.	0.0030	170.	11	5	15	15	11	2	2.00	4.00	3.00	2.00			

COLUMN	REINFORCING	STEEL	R	KL	OC	OF	CM	BD1	BD2	IMPACT	SOIL	WT	ALL.S.P.	MIN	MAX	EDGE	PILE	REBAR	ALL.PILE	ALL.PILE	I
MIN.P	MAX.P	CL.SP.	CLEAR	MODE	COEF					%	KCF	KSF	PL SP	PL SP	PL SP	DIST	DEPTH	CLEAR	CAPACITY	UPLIFT	P
1.00	8.00	2.50	3.750	1	2.00	0.75	0.90	0.00	1.00	0.75	18.87	0.120	20.000	3.00	9.00	1.250	1.000	3.000	235.000	-9.999	

CAP DATA

CN	C	L	A	DE	BC	BE	DH	LH	XB1	XB2	XB3	XB4	XB5	XB6	XB7	XB8
11	L	11.000	2.500	4.000	5.500	5.500	2.000	8.500	7.375	4.875						
12	C	17.250	2.500	6.000	5.500		0.000	0.000	2.500	6.125	6.125					
13	3	SAME AS CANTILEVER 1														

COLUMN DATA

CN	P	I	T	S	HT	A	DT	BT	DB	BB	DL	FLEX	ND	NB	SZ	ND	NB	SZ	ND	NB	SZ	SLOPE	EP	AP			
21	1	C	R		70.000	0.000	6.000	0.000	0.000	0.000	4.000	0.000	19	0	11	19	0	11	42	0	11	42	0	11	0.000	0.000	0.000
22	1	2	SAME AS COLUMN 1																								

FOOTING DATA

CN	S/P	B	D	T	DEL.B	DEL.D	DEL.T	R.B/D	R.D/B	S.HT.	NP	SYM.	BP	DP	SET.
31	s	5.000	5.000	3.000	0.500	0.500	0.250	1.000	1.000	2.500	4	3	0.000	0.000	0.000
32	2	SAME AS FOOTING 1													

GROUP II WIND

WIND ON SUPERSTRUCTURE	WIND ON PIER
TRANS. LONG. WIND	TRANS. LONG. WIND
FT1 FL1 FT2 FL2 FT3 FL3 FT4 FL4 FT5 FL5	FT1 FL1 FT2 FL2 FT3 FL3 FT4 FL4 FT5 FL5
1365. 2730. 1 50 0 44 6 41 12 33 16 17 19 7.375 7.375 1.294 26.020	

GROUP III WIND

WIND ON SUPERSTRUCTURE	WIND ON LIVE LOAD	LENGTHS OF LL	WIND ON LL
INTENSITIES	INTENSITIES	TRANS. LONGI.	APT
FT1 FL1 FT2 FL2 FT3 FL3 FT4 FL4 FT5 FL5	FT1 FL1 FT2 FL2 FT3 FL3 FT4 FL4 FT5 FL5	TRANS. LONGI.	APT
1 50 0 44 6 41 12 33 16 17 19 1 100 0 88 12 82 24 66 32 34 38 140.0 280.0 15.583 15.583			

MISCELLANEOUS FORCES

CENTRI.	TRACTION	FORCE	AND	EXPANSION	SHRINKAGE	STREAM
FT	FL	APT	ARMS	COEFFICIENT	COEFFICIENT	FLOW
			APL			PT
0.000	9.860	15.583	15.583	0.00018000	0.00044000	0.000 0.000

DEAD LOAD SUPERSTRUCTURE AND LIVE LOAD CASES

I.D.	NL	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
D.L.	0	281.621	0.000	325.334	0.000	325.334	0.000	325.334	0.000	281.621			
LL 1	1	85.882	0.000	51.529	0.000	0.000	0.000	0.000	0.000	0.000			
LL 2	2	85.882	0.000	103.059	0.000	85.882	0.000	0.000	0.000	0.000			
LL 3	3	85.882	0.000	103.059	0.000	120.235	0.000	85.882	0.000	17.176			
LL 4	1	0.000	0.000	0.000	0.000	0.000	0.000	51.529	0.000	85.882			
LL 5	2	0.000	0.000	0.000	0.000	85.882	0.000	103.059	0.000	85.882			
LL 6	3	17.176	0.000	85.882	0.000	120.235	0.000	103.059	0.000	85.882			
LL 7	1	0.000	0.000	25.764	0.000	85.882	0.000	25.764	0.000	0.000			
LL 8	2	42.941	0.000	111.647	0.000	94.470	0.000	25.764	0.000	0.000			
LL 9	3	42.941	0.000	111.647	0.000	103.059	0.000	111.647	0.000	42.941			
LL10	2	0.000	0.000	85.882	0.000	103.059	0.000	85.882	0.000	0.000			
LL11	2	85.882	0.000	51.529	0.000	0.000	0.000	51.529	0.000	85.882			
LL12	3	85.882	0.000	103.059	0.000	85.882	0.000	51.529	0.000	85.882			

COLUMN MOMENTS(KIP- FEET), SHEARS(KIPS), REACTIONS(KIPS)

TRANSVERSE

LONGITUDINAL

LOAD	COL	PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF
UNIT F.AT CL.CAP	1	1.977	17.050	0.500	17.950	1.977	0.000	-17.050	2.000	0.500	35.000	35.000
	2	-1.977	17.050	0.500	17.950	-1.977	-17.050	0.000	2.000	0.500	35.000	35.000
EXPANSION OF CAP	1	0.000	45.088	1.390	52.228	0.000	0.000	-45.088	0.000	0.000	0.000	0.000
	2	0.000	-45.088	-1.390	-52.228	0.000	45.088	0.000	0.000	0.000	0.000	0.000
SHRINKAGE OF CAP	1	0.000	-110.215	-3.398	-127.668	0.000	0.000	110.215	0.000	0.000	0.000	0.000
	2	0.000	110.215	3.398	127.668	0.000	-110.215	0.000	0.000	0.000	0.000	0.000
DEAD LOAD TOTAL	1	859.753	-359.573	-7.705	-179.787	1139.669	2319.161	-1959.588	0.000	0.000	0.000	0.000
		1139.669										

		ds-36-5-140-70.out											
	2	859.753 1139.669	359.573	7.705	179.787	1139.669	1959.588	-2319.161	0.000	0.000	0.000	0.000	
TRAC. FORCE 1 LN	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-96.544	-4.930	-421.924	-421.924
	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-96.544	-4.930	-421.924	-421.924
WIND ON SUBSTR.	1	2.558	22.063	0.647	23.227	2.558	0.000	-22.063	-52.040	-13.010	-910.700	-910.700	-910.700
	2	-2.558	22.063	0.647	23.227	-2.558	-22.063	0.000	-52.040	-13.010	-910.700	-910.700	-910.700
GROUP 2 WIND 1 1	1	166.655	1185.726	34.772	1248.314	166.655	0.000	-1185.726	-52.040	-13.010	-910.700	-910.700	-910.700
	2	-166.655	1185.726	34.772	1248.314	-166.655	-1185.726	0.000	-52.040	-13.010	-910.700	-910.700	-910.700
GROUP 2 WIND 1 2	1	166.655	1185.726	34.772	1248.314	166.655	0.000	-1185.726	52.040	13.010	910.700	910.700	910.700
	2	-166.655	1185.726	34.772	1248.314	-166.655	-1185.726	0.000	52.040	13.010	910.700	910.700	910.700
GROUP 2 WIND 2 1	1	146.963	1046.086	30.677	1101.304	146.963	0.000	-1046.086	-145.201	-21.200	-1544.401	-1544.401	-1544.401
	2	-146.963	1046.086	30.677	1101.304	-146.963	-1046.086	0.000	-145.201	-21.200	-1544.401	-1544.401	-1544.401
GROUP 2 WIND 2 2	1	146.963	1046.086	30.677	1101.304	146.963	0.000	-1046.086	145.201	21.200	1544.401	1544.401	1544.401
	2	-146.963	1046.086	30.677	1101.304	-146.963	-1046.086	0.000	145.201	21.200	1544.401	1544.401	1544.401
GROUP 2 WIND 3 1	1	137.117	976.266	28.629	1027.798	137.117	0.000	-976.266	-238.363	-29.390	-2178.103	-2178.103	-2178.103
	2	-137.117	976.266	28.629	1027.798	-137.117	-976.266	0.000	-238.363	-29.390	-2178.103	-2178.103	-2178.103
GROUP 2 WIND 3 2	1	137.117	976.266	28.629	1027.798	137.117	0.000	-976.266	238.363	29.390	2178.103	2178.103	2178.103
	2	-137.117	976.266	28.629	1027.798	-137.117	-976.266	0.000	238.363	29.390	2178.103	2178.103	2178.103
GROUP 2 WIND 4 1	1	110.862	790.080	23.169	831.785	110.862	0.000	-790.080	-300.470	-34.850	-2600.570	-2600.570	-2600.570
	2	-110.862	790.080	23.169	831.785	-110.862	-790.080	0.000	-300.470	-34.850	-2600.570	-2600.570	-2600.570
GROUP 2 WIND 4 2	1	110.862	790.080	23.169	831.785	110.862	0.000	-790.080	300.470	34.850	2600.570	2600.570	2600.570
	2	-110.862	790.080	23.169	831.785	-110.862	-790.080	0.000	300.470	34.850	2600.570	2600.570	2600.570
GROUP 2 WIND 5 1	1	58.351	417.708	12.250	439.757	58.351	0.000	-417.708	-347.051	-38.945	-2917.421	-2917.421	-2917.421
	2	-58.351	417.708	12.250	439.757	-58.351	-417.708	0.000	-347.051	-38.945	-2917.421	-2917.421	-2917.421
GROUP 2 WIND 5 2	1	58.351	417.708	12.250	439.757	58.351	0.000	-417.708	347.051	38.945	2917.421	2917.421	2917.421
	2	-58.351	417.708	12.250	439.757	-58.351	-417.708	0.000	347.051	38.945	2917.421	2917.421	2917.421
GROUP 3 WIND 1 1	1	90.319	594.418	17.432	625.794	90.319	0.000	-594.418	-15.612	-3.903	-273.210	-273.210	-273.210
	2	-90.319	594.418	17.432	625.794	-90.319	-594.418	0.000	-15.612	-3.903	-273.210	-273.210	-273.210

□ COLUMN MOMENTS(KIP-FEET), SHEARS(KIPS), REACTIONS(KIPS)

		TRANSVERSE									* LONGITUDINAL		
LOAD	COL	PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF	
GROUP 3 WIND 1 2	1	90.319	594.418	17.432	625.794	90.319	0.000	-594.418	15.612	3.903	273.210	273.210	
	2	-90.319	594.418	17.432	625.794	-90.319	-594.418	0.000	15.612	3.903	273.210	273.210	
GROUP 3 WIND 2 1	1	79.573	523.882	15.363	551.535	79.573	0.000	-523.882	-76.460	-8.040	-607.100	-607.100	
	2	-79.573	523.882	15.363	551.535	-79.573	-523.882	0.000	-76.460	-8.040	-607.100	-607.100	
GROUP 3 WIND 2 2	1	79.573	523.882	15.363	551.535	79.573	0.000	-523.882	76.460	8.040	607.100	607.100	
	2	-79.573	523.882	15.363	551.535	-79.573	-523.882	0.000	76.460	8.040	607.100	607.100	
GROUP 3 WIND 3 1	1	74.200	488.614	14.329	514.405	74.200	0.000	-488.614	-137.308	-12.177	-940.990	-940.990	
	2	-74.200	488.614	14.329	514.405	-74.200	-488.614	0.000	-137.308	-12.177	-940.990	-940.990	
GROUP 3 WIND 3 2	1	74.200	488.614	14.329	514.405	74.200	0.000	-488.614	137.308	12.177	940.990	940.990	
	2	-74.200	488.614	14.329	514.405	-74.200	-488.614	0.000	137.308	12.177	940.990	940.990	
GROUP 3 WIND 4 1	1	59.871	394.566	11.571	415.393	59.871	0.000	-394.566	-177.873	-14.935	-1163.583	-1163.583	
	2	-59.871	394.566	11.571	415.393	-59.871	-394.566	0.000	-177.873	-14.935	-1163.583	-1163.583	
GROUP 3 WIND 4 2	1	59.871	394.566	11.571	415.393	59.871	0.000	-394.566	177.873	14.935	1163.583	1163.583	
	2	-59.871	394.566	11.571	415.393	-59.871	-394.566	0.000	177.873	14.935	1163.583	1163.583	
GROUP 3 WIND 5 1	1	31.215	206.471	6.055	217.369	31.215	0.000	-206.471	-208.297	-17.003	-1330.528	-1330.528	
	2	-31.215	206.471	6.055	217.369	-31.215	-206.471	0.000	-208.297	-17.003	-1330.528	-1330.528	
GROUP 3 WIND 5 2	1	31.215	206.471	6.055	217.369	31.215	0.000	-206.471	208.297	17.003	1330.528	1330.528	
	2	-31.215	206.471	6.055	217.369	-31.215	-206.471	0.000	208.297	17.003	1330.528	1330.528	
LIVE LOAD LL 1	1	173.185	-84.317	-1.632	-29.944	173.185	633.380	-549.063	0.000	0.000	0.000	0.000	
	2	-35.774	68.030	1.632	46.230	-35.774	-68.030	0.000	0.000	0.000	0.000	0.000	
LIVE LOAD LL 2	1	267.656	-39.775	-0.678	-7.672	267.656	633.380	-593.605	0.000	0.000	0.000	0.000	
	2	7.167	23.488	0.678	23.959	7.167	-23.488	0.000	0.000	0.000	0.000	0.000	
LIVE LOAD LL 3	1	249.910	-32.007	-0.560	-7.209	249.910	570.042	-538.035	0.000	0.000	0.000	0.000	
	2	121.101	20.281	0.560	18.935	121.101	93.725	-114.006	0.000	0.000	0.000	0.000	
LIVE LOAD LL 4	1	-35.774	-68.030	-1.632	-46.230	-35.774	0.000	68.030	0.000	0.000	0.000	0.000	
	2	173.185	84.317	1.632	29.944	173.185	549.063	-633.380	0.000	0.000	0.000	0.000	
LIVE LOAD LL 5	1	7.167	-23.488	-0.678	-23.959	7.167	0.000	23.488	0.000	0.000	0.000	0.000	
	2	267.656	39.775	0.678	7.672	267.656	593.605	-633.380	0.000	0.000	0.000	0.000	
LIVE LOAD LL 6	1	121.101	-20.281	-0.560	-18.935	121.101	114.006	-93.725	0.000	0.000	0.000	0.000	
	2	249.910	32.007	0.560	7.209	249.910	538.035	-570.042	0.000	0.000	0.000	0.000	
LIVE LOAD LL 7	1	68.705	44.542	0.954	22.271	68.705	0.000	-44.542	0.000	0.000	0.000	0.000	
	2	68.705	-44.542	-0.954	-22.271	68.705	44.542	0.000	0.000	0.000	0.000	0.000	
LIVE LOAD LL 8	1	219.710	6.838	0.234	9.526	219.710	316.690	-323.528	0.000	0.000	0.000	0.000	
	2	55.112	-14.981	-0.234	-1.383	55.112	14.981	0.000	0.000	0.000	0.000	0.000	
LIVE LOAD LL 9	1	185.506	-20.450	-0.438	-10.225	185.506	285.021	-264.570	0.000	0.000	0.000	0.000	
	2	185.506	20.450	0.438	10.225	185.506	264.570	-285.021	0.000	0.000	0.000	0.000	

□ COLUMN MOMENTS(KIP-FEET), SHEARS(KIPS), REACTIONS(KIPS)

		TRANSVERSE									* LONGITUDINAL		
LOAD	COL	PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF	

ds-36-5-140-70.out											
LIVE LOAD LL10	1	137.411	53.451	1.145	26.726	137.411	0.000	-53.451	0.000	0.000	0.000
	2	137.411	-53.451	-1.145	-26.726	137.411	53.451	0.000	0.000	0.000	0.000
LIVE LOAD LL11	1	137.411	-152.347	-3.265	-76.174	137.411	633.380	-481.032	0.000	0.000	0.000
	2	137.411	152.347	3.265	76.174	137.411	481.032	-633.380	0.000	0.000	0.000
LIVE LOAD LL12	1	208.694	-97.025	-2.079	-48.512	208.694	570.042	-473.017	0.000	0.000	0.000
	2	162.317	97.025	2.079	48.512	162.317	473.017	-570.042	0.000	0.000	0.000

CAP ANALYSIS AND DESIGN DATA

CAP MOMENTS AND SHEARS

POINT	MOMENTS(KIP-FEET)							SHEARS(KIPS)						
	D.L.TOT.	G1 MAX.+	G1 MAX.-	G2 MAX.+	G2 MAX.-	G3 MAX.+	G3 MAX.-	DL T.LT	DL T.RT	G1 + LT	G1 + RT	G1 - LT	G1 - RT	
P 1	-30.190	-30.190	-30.190	-30.190	-30.190	-30.190	-30.190	-17.209	-383.317	-17.209	-383.317	-17.209	-569.766	
P 2	-1965.579	-1965.579	-2874.521	-1965.579	-1965.579	-1965.579	-2509.856	-411.689	-411.689	-411.689	-411.689	-598.138	-598.138	
C 1L	-3014.909	-3014.909	-4389.977	-3014.909	-3014.909	-3014.909	-3838.303	-427.776		-427.776		-614.226		
C 1R	-2547.464	-2399.770	-3836.180	-1006.021	-4088.907	-1686.281	-4091.894		266.969		440.351		189.305	
P 4	-1900.151	-1736.517	-2944.472	-805.503	-2994.799	-1253.407	-3074.253	250.881	250.881	424.264	424.264	173.217	173.217	
P 5	-484.208	364.633	-1528.530	-484.208	-484.208	24.080	-1109.550	211.467	-211.467	384.849	-133.803	133.803	-384.849	
P 6	-1900.151	-1736.517	-2944.472	-805.503	-2994.799	-1253.407	-3074.253	-250.881	-250.881	-173.217	-173.217	-424.264	-424.264	
C 2L	-2547.464	-2399.770	-3836.180	-1006.021	-4088.907	-1686.281	-4091.894	-266.969		-189.305		-440.351		
C 2R	-3014.909	-3014.909	-4389.977	-3014.909	-3014.909	-3014.909	-3838.303		427.776		614.226		427.776	
P 8	-1965.579	-1965.579	-2874.521	-1965.579	-1965.579	-1965.579	-2509.856	411.689	411.689	598.138	598.138	411.689	411.689	
P 9	-30.190	-30.190	-30.190	-30.190	-30.190	-30.190	-30.190	383.317	17.209	569.766	17.209	383.317	17.209	

PT.	CAP DESIGN DATA		LEFT STIRRUPS		RIGHT STIRRUPS		D IN.	FC PSI	PS %	FS/FF RATIO	FS/FZ RATIO
	M+ UNF. K-FT.	M- UNF. K-FT.	TOP REINFORCE. AS NO.SIZE	BOT. REINFORCE. AS NO.SIZE	M.SP. AV/IN BAR&SPAC	M.SP. AV/IN BAR&SPAC					
P 1	-23.223	-23.223	3.12 2 # 11	3.12 2 # 11	0.00 0.000 #5@ 0.00	24.00 0.073 #5@ 8.46	58.24		0.09	0.000	0.090
P 2	-1511.984	-1930.658	9.50 7 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.21	0.479	1.145
C 1	-1891.557	-2952.541	14.67 10 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.35	0.806	1.100
P 4	-1386.282	-1942.687	10.18 7 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.23	0.608	1.152
P 5	18.523	-853.500	6.67 5 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.15	2.117	0.000
P 6	-1386.282	-1942.687	10.18 7 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.23	0.608	1.152
C 2	-1891.557	-2952.541	14.67 10 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.35	0.806	1.100
P 8	-1511.984	-1930.658	9.50 7 # 11	3.12 2 # 11	24.00 0.055 #5@11.27	24.00 0.055 #5@11.27	72.00		0.21	0.479	1.145
P 9	-23.223	-23.223	3.12 2 # 11	3.12 2 # 11	24.00 0.073 #5@ 8.46	0.00 0.000 #5@ 0.00	58.24		0.09	0.000	0.090

NOTE: *** FS/FZ RATIO EXCEEDS 1.0! ***

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COLUMN ANALYSIS AND DESIGN OUTPUT

CN	T	CRITICAL COLUMN LOADS														B	D			
		GR	LLC	WC	R	E	C	S	F	PF	MTF	MLF	PM	MTM	MLM			PU	MTU	MLU
1	T	5		1.1	R	S			866.4	-2069.4	65.1	866.4	2363.4	386.3	2846.0	7727.8	1263.1	3.271	72.00	72.00
1	B	2		5.1					1557.4	338.0	-3792.6	1557.4	542.8	6679.3	1575.1	550.5	6774.3	1.014	72.00	72.00
2	T	5		1.1		S			866.4	2069.4	-65.1	866.4	2363.4	386.3	2846.0	7727.8	1263.1	3.271	72.00	72.00
2	B	2		5.1	R				1557.4	-338.0	3792.6	1557.4	542.8	6679.3	1575.1	550.5	6774.3	1.014	72.00	72.00

CN	T	COLUMN DESIGN DATA														CM	R	PHIC
		B FACE 1 NO.SIZE	B FACE 2 NO.SIZE	D FACE 3 NO.SIZE	D FACE 4 NO.SIZE	AS	PS	BD12	BD	SUMPU	SUMPC	DEL.T	DEL.L					
1	T	27 # 11	0 # 0	0 # 0	0 # 0	42.12	1.035	1.00	0.166	2499.	20088.	1.142	1.486	1.000	1	0.75		
1	B	27 # 11	0 # 0	0 # 0	0 # 0	42.12	1.035	1.00	0.000	2599.	18673.	1.162	1.761	1.000	1	0.75		
2	T	27 # 11	0 # 0	0 # 0	0 # 0	42.12	1.035	1.00	0.166	2499.	20088.	1.142	1.486	1.000	1	0.75		
2	B	27 # 11	0 # 0	0 # 0	0 # 0	42.12	1.035	1.00	0.000	2599.	18673.	1.162	1.761	1.000	1	0.75		

FOOTING 1 DESIGN LOADS

F	G	LLID	WC	ES	C	S	P	MT	VT	ML	VL	P4	P3	P2	P1	MTF	VBF	VPF	LOAD
2	2		4.1				1028.807	1011.571	30.875	-2600.570	-34.850	13.288	-7.173	1.706	22.167	57.845	6.821	18.332	MAX.P1
2	2		4.1R				1625.690	-847.597	-20.104	3380.741	45.305	21.229	-3.427	3.063	27.719	77.111	8.870	27.978	MAX.MT
2	2		4.1R				1625.690	-847.597	-20.104	3380.741	45.305	21.229	-3.427	3.063	27.719	77.111	8.870	27.978	MAX.VT
2	3	LL 6	5.1R				1795.458	-40.973	2.758	3210.640	39.409	24.812	1.695	1.922	25.039	69.690	7.782	30.806	MAX.VP
2	2		5.1R				1557.426	-337.961	-5.908	3792.647	50.628	24.265	-3.772	-1.068	26.969	123.031	14.889	26.954	MAX.ML

2	2	5.1R	1557.426	-337.961	-5.908	3792.647	50.628	24.265	-3.772	-1.068	26.969	123.031	14.889	26.954	MAX.VL
2	2	4.1	1028.807	1011.571	30.875	-2600.570	-34.850	13.288	-7.173	1.706	22.167	57.845	6.821	18.332	MAX.P3

FOOTING 1 ANALYSIS/DESIGN RESULTS

FOOTING SIZE			* BAR REINFORCEMENT STEEL *						SECTION CAPACITIES *			
B	D	T	P1/PA	AS	NO.SIZE	SPAC.	PLACEMENT	MT.	VB	VP	DS	FC
12.000	12.000	3.000	0.887	0.73	20 # 6 @	7.125	TOP TRAN	103.154	38.469	76.939	31.875	0.000
				0.86	24 # 6 @	6.000	BOT.LONG	126.267	39.374	78.749	32.625	0.000

FOOTING 2 DESIGN SAME AS FOOTING 1